

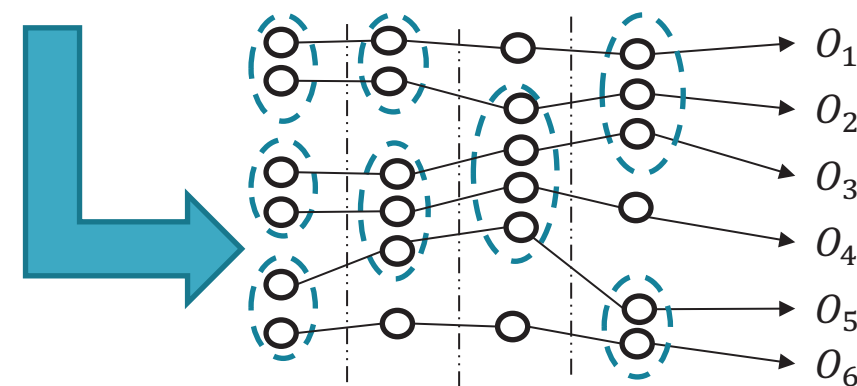
(a) Clusters in Snapshots



(b) Temporal Replicate Partition



(c) Line Sweep Mining



$$C_1 = \{o_1, o_2\}\{1\}, \\ \{o_3, o_4\}\{1\}, \\ \{o_5, o_6\}\{1\}$$

$$C_2 = \{o_1, o_2\}\{1,2\}, \\ \{o_3, o_4\}\{1,2\}, \\ \{o_5, o_6\}\{1\}$$

$$C_3 = \{o_1, o_2\}\{1,2\}, \\ \{o_3, o_4\}\{1,2,3\}, \\ \{o_5, o_6\}\{1,2\}$$

$$C_4 = \{o_1, o_2\}\{1,2,4\}, \\ \{o_3, o_4\}\{1,2,3\}$$